### **SEARCH REQUEST FORM**

Requestor's Name:		Serial Number: _	
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#### Sclareiber, David

From: Sent:

Yu, Misook Wednesday, August 28, 2002 9:40 AM Schreiber, David 09/499,662

To:

Subject:

David, you searched SEQ ID NO:1 of this case on 08/15/2002. Would you please print out result from 16-32 from Geneseq data base? Thank you.

Examiner Misook Yu, Ph.D. 703-308-2454 (Phone) Art Unit 1642 CM1-8E18 (Room) CM1-8E12 (Mail Box)

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DAT	l/gcgdata/hold-geneseq/geneseqp-em	268:
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AT	l/gcgdata/hold-geneseq/geneseqp-em	265:
AT	l/gcgdata/hold-geneseq/geneseqp-em	263:

368: 369: 370: 371: 372: 373: 374:	357: 359: 360: 361: 364: 366: 366:	345 345 3447 3553 3553 3553 3553	336: 337: 338: 340: 341: 342: 343:
68: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1995.DAT 69: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1996.DAT 70: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1997.DAT 71: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1999.DAT 72: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1999.DAT 73: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA2000.DAT 74: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA2001.DAT	/SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1984.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1985.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1985.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1987.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1988.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1988.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1990.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1991.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1993.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1993.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1994.DAT /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1994.DAT	45. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1995. 46. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1995. 47. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1995. 48. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1997. 48. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1997. 49. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1999. 50. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1999. 51. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA2000. 52. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1980. 53. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1981. 54. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1981. 55. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1983. 55. /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1983.	36: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1985.DAT 37: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1986.DAT 38: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1987.DAT 38: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1987.DAT 39: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1989.DAT 40: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1989.DAT 41: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1990.DAT 42: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1992.DAT 43: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1993.DAT 44: /SIDS1/gcgdata/hold-geneseq/geneseqp-emb1/AA1993.DAT
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result	Score	% Query Match	% Query Match Length	DB	ID	Description
<u>,</u>	59	100.0	314	20	AAW98070	Soluble Fas recept
2	59	100.0	331	44	AAB50893	Human Fas receptor
ω	59	100.0	335	57	AAR28084	Human cell surface
4	59	100.0	335	82	AAR78606	Human Fas protein.
ъ	59	100.0	335	105		Human Fas antigen.
σ	59	100.0	335	127		hFas from plasmid
7	59	100.0	335	150		Human Fas antigen.
8	59	100.0	335	173		Fas protein. Mamm
9	59	100.0	335	197		Amino acid encodin
10	59	100.0	335	219		Human Fas receptor
11	59	100.0	335	241		CD-95 (FAS/APO-1)
12	59	100.0	335	264	AAB50517	Human tumour necro
13	59	100.0	376	282	AAW50287	Human Fas antigen
14	59	100.0	376	305	AAW60037	Antigenic peptide
15	59	100.0	600	324	AAR78610	Expression vector
16	59	100.0	600	347	AAR92526	Fas antigen #1. S
17	50	100.0	669	371	AAW64484	Human TNFR1 protei

ALIGNMENTS

RESULT 1 AAW98070

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                                           Query Match
Best Local
                             Matches
                                                                                                                                     with an undesired FasL-mediated proinflammatory response, e.g. graft versus host disease, or an autoimmune disease such as systemic lupus erythematosus, rheumatoid arthritis and psoriasis. The invention also provides a method for identifying agents which modulate FasL stimulation of a proinflammatory response.
                                                                                                                                                                                                                   agent, and the cell mixture comprises neutrophil cells. The method can be practised in vitro, ex vivo or in vivo. Suitable immunosuppressive agents include antisense molecules that inhibit endogenous FasL expression, solible Fas receptors or variants, ribozymes that inhibit the endogenous expression of FasL, drugs that inhibit FasL signalling, agents that induce the endogenous expression of transforming growth factor (TGF)-beta, and polynucleotides coding for an immunosuppressive agent such as TGF-beta. The method can be used for treating diseases associated with the content of the method can be used for treating diseases associated.
                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                cell mixture by administering an amount of Fast ligand (Fast). In some inhibits the proinflammatory activity of Fast ligand (Fast). In some embodiments, an Fast is coadministered with the immunosuppressive embodiments, an Fast is commonlisted neutrophil cells. The method
                                                                                                                                                                                                                                                                                                                                                                                                This present sequence is a soluble Fas receptor. The invention provides a method for inhibiting a proinflammatory response in a cell mixture by administering an immunosuppressive agent which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-132243/11.
N-PSDB; AAX24878.
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graft versus host
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 4B; 71pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease or autoimmune disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inhibition of proinflammatory responses - using an agent which modulates Fast stimulation, used for treating graft versus host
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rheumatoid arthritis; systemic lupus erythematosus; gene therapy.
                     Local 5
1 RTONTKCRCK 10
                                            Similarity
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                                                                                                            314
                               Conservative
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109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "encoded by GAA'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ligand; FasL; proinflammatory; immunosuppressive;
disease; autoimmune disease; psoriasis;
                                            100.0%;
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                                           Score 59;
Pred. No. (
                               Mismatches
                                                               DB
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                             0;
                                                           Length 314;
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                                               Query Match
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                                   Matches
                                                                                                                                                         cancer, such as breast and ovarian cancer and leukaemia; autoimmune disorders such as multiple sclerosis, Crohn's disease and graft versus host disease; diseases associated with increased apoptosis such as AIDS, Alzheimer's disease and Parkinson's disease; cardiovascular disorders such as limb ischaemia and congenital heart defects; inflammatory diseases e.g. allergy; wound healing; disorders associated with neovascularisation, e.g. diabetic retinopathy; infectious diseases such as viral, bacterial, fungal and parasitic infections; and neurological
                                                                                                                                                                                                                                                                                             The present sequence is given in a specification relating to an isonucleic acid encoding a human tumour necrosis factor receptor TR10. The TR10 polynucleotide, polypeptide, antibodies, agonists and antagonists are useful in the diagnosis, treatment or prevention of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antiinflammatory; anti-HTV; antiparkinsonian; nootropic; cardiant; vasotropic; antiallergic; antidabbetic; vulnerary; ophthalmological; vantiviral; antibacterial; antimpal; antiparasitic; gene therapy; tumour necrosis factor receptor; cancer; leukaemia; autoimmune disorder; apoptosis; cardiovascular disorder; inflammatory disease; wound; infection; neurological disease; Fas receptor; protein coordinate data.
                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid encoding a tumor necrosis factor receptor 10, useful in the diagnosis, treatment or prevention of cancer, autoimmune disorders, and diseases and disorders associated with apoptosis -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HUMA-) HUMAN GENOME SCI INC
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07-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Fig 2; 212pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-MAY-2000; 2000WO-US14554.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TR10 receptor; cytostatic; immunosuppressive; neuroprotective;
                                                  Similarity
                                                                                                                                                 such as amyotrophic lateral sclerosis.
                                                                                                                  331
                                   Conservative
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99US-0142563.
99US-0144023.
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Pred. No.
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RESULT :

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                                                                                       Query Match
Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                        The Fas antigen is implicated in apoptosis. A cDNA clone encoding the antigen was isolated (pF58) and the amino acid sequence of Fas was deduced from it. The mature protein has a calculated mol.wt. oi 36,000 and is a member of the NGFR/TMNFR family of cell-surface membrane proteins. The inventors claim a protein comprising at least the extracellular domain of Fas antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA encoding human cell surface antigen - used to clarify apoptosis mechanism of various types of cell, and to prepare monoclonal antibodies that react with tumour cells expressing Fas
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                                                                                                                                                                                                        Sequence
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N-PSDB; AAQ29959.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human cell surface antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (OSAB-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fas antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR28084;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR28084 standard;
  121
                                              1 RTQNTKCRCK 10
rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OSAKA BIOSCIENCE INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nagata S,
                                                                                                                                                                                                        335 AA;
                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    apoptosis; pF58; NGFR/TNFR family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91JP-0125234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92EP-0107060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /label= extracellular
/note= "cysteine-rich"
191..335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           118..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /label= N-glycosylation_site
/note= "putative"
136. 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /label= signal
17..335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /label= N-glycosylation_site
/note= "putative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label= transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'label= Fas_antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yonehara S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                            100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytoplasmic
                                                                                                                 .0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            335
                                                                                            0;
                                                                                         Score 59; DE Pred. No. 0; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA
                                                                                                        . 0;
                                                                                                                                     57;
                                                                                            0;
                                                                                                                                     Length 335;
                                                                                            Indels
                                                                                         0;
                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                          of.
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RESULT

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AAR78606
ID AAR7
XX
AC AAR7
XX
AC AAR7
AX 19-F
XX
Plas
KW Plas
KW Plas
KW Plas
KW Anti
XX
PPP Pepi
FT 
    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                멍
                                                                                                                                                                                                                                                                                                                                       AAR99681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 10; Conserv
Key
Peptide
                                                                   Homo sapiens.
                                                                                                           Fas antigen; autoimmune disease; systemic lupus angioimmunoblastic lymphadenopathy; AILD.
                                                                                                                                                                               Human Fas antigen.
                                                                                                                                                                                                                            10-OCT-1996
                                                                                                                                                                                                                                                                        AAR99681;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAR78606 (human Fas protein) is encoded by the plasmid pF58 which contains hFas CDNA. The plasmid was used in the construction of an expression vector for the prodn, of recombinant soluble membrane proteins. The proteins can be used in antibody prodn. for the
                                                                                                                                                                                                                                                                                                                  AAR99681 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preparation production :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1995-202847/27
N-PSDB; AAQ95297.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Plasmid pF58; human Fas cDNA; soluble membrane protein; antibody production; diseases; treatment; prevention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR78606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAR78606 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Pages 15-17; 51pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-ocr-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-OCT-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-MAY-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP07115988-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Fas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NISB ) JAPAN TOBACCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 RTQNTKCRCK 10
                                                                                                                                                                                                                                                                                                                                                            S,
                                                                                                                                                                                                                                                                                                                                                                                                                              rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and prevention of related diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for the treatment and prevention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                       (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ΑA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93JP-0267644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93JP-0267644
Location/Qualifiers 1..16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label=
17..335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /label= mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein;
                                                                                                                                                                                                                                                                                                                  Protein; 335 AA.
                                                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          n of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 82;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          their use in antibody related diseases
                                                                                                                                   erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 335;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                     SLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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g
                                                                                                                                                                                                 AAR92528
                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                     A cDNA clone (AAM34526) codes for a membrane receptor-like protein, Fas antigen (AAM99681). It was isolated from cDNA derived from the peripheral blood mononuclear cells of systemic lupus erythematosus (SLE) and angioimmunoblastic lymphadenopathy (AILD) patients. 4 Soluble variants (AAR99682-85) were identified of the Fas antigen. These arose by alternative splicing of Fas gene transscripts. The Fas variants were present at higher levels in SLE and AILD patients
                                                                      Synthetic
                                                                                                                                               06-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Natural, soluble form of Fas antigen secreted by human cells result of alternative mRNA processing - used to diagnose Fas-associated disease, e.g. systemic lupus erythematosus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9620206-A1.
                   Protein
                                                                                                      Fas; antigen;
                                                                                                                          hFas from plasmid pCEV4/hFas
                                                                                                                                                                                       AAR92528 standard; Protein; 335 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-JUL-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Doma in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein
                                       Peptide
                                                                                            rheumatoid
                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 109-111; 152pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UABR-) UAB RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-DEC-1995;
                                                                                                                                                                                                                                            121
                                                                                                                                                                                                             6
                                                                                                                                                                                                                                                               RTQNTKCRCK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1996-321796/32
                                                                                                                                                                                                                                           rtqntkcrck 130
                                                                                                                                                                                                                                                                                    l Similarity
10; Conserv
                                                                                                                                                                                                                                                                                                                                                             non-soluble Fas antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Liu C,
                                                                                            arthritis;
                                                                                                                                                                                                                                                                                                                                         335 AA;
                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                              (first entry)
                                                                                                      immunoassay;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /label= Sig_peptide
17.335
/label= Mat_protein
17.173
/label= Extracellular_domain
174.190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94US-0371263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    95WO-US17083.
                  /note= "hFas signal peptide"
17..335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               105,50000
                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label=
191..335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mountz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /label= Cytoplasmic_tail
                                                                                                                                                                                                                                                                                             100.0%;
                                                                                           serum; systemic lupus erythematosus
         "mature hFas'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ď,
                                                                                                     monoclonal
                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                             Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zhou
                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                     antibody; autoimmune disease;
                                                                                                                                                                                                                                                                                                        BB
                                                                                                                                                                                                                                                                                                        105;
                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prior avi
                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                    0,
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                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents the sequence for the human Fas antigen contained within the plasmid pCEV4/hEas. The soluble Fas antigen is included in the immunoassay kit of the invention. The kit is for the assay of soluble Fas antipen and contains an immobilised anti-soluble Fas monoclonal antibody, as well as the standard soluble Fas antigen represented by this sequence. The assay is simple and has high accuracy, high sensitivity, and is capable of assaying a number of different specimens at the same time. The immunoassay is used on biological samples (such as serum) and is useful for diagnosis of autoimmune diseases such as rheumatoid arthritis or systemic lupus erythematosus
                                                                                                      Key
                                                                                                                                                              Human; Fas antigen; derivative; treatment; diabetes; arthritis;
                                                                                                                                                                                                 Human Fas antigen.
                                                                                                                                                                                                                                                                       AAW50289 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-FEB-1995;
06-JUL-1994;
                                            Region
                                                                   Peptide
                                                                                                                             Homo sapiens
                                                                                                                                                     apoptosis modulation.
                                                                                                                                                                                                                        16-JUL-1998
                                                                                                                                                                                                                                                AAW50289;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 8; Page 49-52; 124pg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunoassay method for soluble Fas antigen in body fluids - fo
diagnosis of auto:immune diseases such as rheumatoid arthritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hachiya
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9601277-A1
                                                                                           Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (NISB)
                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                       1 RTQNTKCRCK 10
                                                                                                                                                                                                                                                                                                                              ||||||||||
|rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1996-087635/09
                                                                                                                                                                                                                                                                                                                                                                             Similarity
10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDICAL & BIOLOGICAL LAB JAPAN TOBACCO INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                       335
                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Noguchi J,
                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                        AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               erythematosus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95JP-0025637.
94JP-0154706.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95WO-JP00349
                                                                    /label=
17..335
                                              /label= mat_peptide
17..173
                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                      Protein; 335
                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                  "claimed fragment"
                                                                             sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yonehara
                                                                                                                                                                                                                                                                                                                                                                                        Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Japanese.
                                                                                                                                                              apoptosis regulation; gene therapy; lupus; hepatitis; influenza; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    င္ပ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LTD.
                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                   Length 335;
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT
AAW49104
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Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    region lacking one or more amino acid residues in the region from the amino-terminal to (but excluding) the 1st cysteine residue (preferably at least 29 residues are deleted).

The derivatives are effective regulators of apoptosis and can be used (either by administration of the polypeptide, or by the use of the coding DNA in gene therapy) to treat a range of diseases, e.g. diabetes, arthritis, lupus and in particular viral diseases such as hepatitis, influenza and HIV, by modulating apoptosis of
                                                                                                                                                                                                           Fas protein; CD8+ T-lymphocyte killer cell; TK; Fas-ligand; FasL; CD4+ cell; apoptosis; lymphocyte; human immunodeficiency virus; H simian immunodeficiency virus; SIV; cytotoxic T lymphocyte; CTL;
                                                                                                                                                                                                                                                                                                                                             AAW49104 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antigen derivatives, which contain a Fas antigen extracellular region lacking one or more amino acid residues in the region fi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fas antigen derivative containing modified extracellular region has low antigenicity, promotes apoptosis and is useful in troate
            W09835692-A1
                                                                                                                               Peptide
                                                                                                                                                                       Mammalia
                                                                                                                                                                                                prophylactic;
                                                                                                                                                                                                                                                                 Fas protein.
                                                                                                                                                                                                                                                                                           18-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             virus-infected cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence was used in the development of novel Fas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; Fig 1-2; 102pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAY-1997;
                                                                                                      Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MOCH ) MOCHIDA PHARM CO LTD. (OSAB-) OSAKA BIOSCIENCE INST.
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                                                                                                                                                                                                                                                                                                                                                                                                                rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                                                                                                                           RTONTKCRCK 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antigenicity, promotes apoptosis and is useful in treatment
l and other diseases
                                                                                                                                                                     sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nakamura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                AIDS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97WO-JP01502
                                                                                                                             Location/Qualifiers
                                                                                                  /note= "Signal peptide"
17..335
                                   /note= "The portion of a Fas protein which can be
fused to a Fc polypeptide to form a Fas-Fc
fusion protein"
                                                                                         /note=
                                                                                                                                                                                                                                                                                                                                               Protein; 335
                                                                              .172
                                                                                        "Fas protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 59; DE
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 335;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    from
                                                                                                                                                                                                                          HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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autoimmune disease;

Human; Fas; Apo-1; antisense compound; Fas ligand; Fap-1; hepatitis; Fas associated protein 1; protein tyrosine phosphatase; cancer;

0,

inflammatory disease; lymphoma

WO200061150-A1

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В
                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immune cell population with an effective amount of an agent (e.g. a soluble Fas-Fc fusion protein) which would interfere with the interaction between Fas and FasL. Therefore, the method is useful for identifying suitable agents which can reduce depletion of activated Fas-expressing CD8+ TK cells in immune cell populations. Also claimed is the use of the agent in the manufacture of therapeutic compositions. Apoptosis of lymphocytes can be triggered by the interaction of the cell surface receptor Fas and its ligand FasL. By interfering with this interaction, the method described and its preparations can prevent apoptosis of CD8+ TK lymphocytes caused by expression of FasL on activated CD4+ cells. Such FasL-expressing activated CD4+ cells are especially the result of CD4+ cell infection with an immunodeficiency virus e.g. human immunodeficiency virus (SIV). The claimed prevention of apoptosis may then allow maintenance/regeneration of cytotoxic T lymphocyte (CTL) activity towards the CD4+ cells infected with the infectious agent, enabling
                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Reducing CD8+ lymphocyte apoptosis to treat e.g. immunodeficiency diseases - by interfering with interaction of Fas with Fas-ligand expressed on activated CD4+ cells, e.g. cells infected with HIV
                                                                                                                                        Amino acid encoding a human Fas (Apo-1) protein
                                                                                                                                                                         06-MAR-2001
                                                                                                                                                                                                         AAB19341;
                                                                                                                                                                                                                                      AAB19341 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             method of the invention. The method is concerned with reducing depletion of activated Fas-expressing CD8+ T-lymphocyte killer (TK) cells in an immune cell population which also comprises of Fas-ligand (FasL)-expressing activated CD4+ cells. It involves contacting this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diseases e.g. AIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Fig 7; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; AAV32993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence represents a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-456867/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screaton GR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      reatment (prophylactic
                                                                                                                                                                                                                                                                                                                        121 rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                           1 RTQNTKCRCK 10
                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                        10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       335
                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and/or therapeutic) of immunodeficiency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The method is concerned with reduc
                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                       Score 59;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                        red. No. 0;
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                        DB
                                                                                                                                                                                                                                                                                                                                                                                                                       173;
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                                                                                                                                                                                                                                                                                                                                                                                        0;
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RESULT
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  describes antisense compounds which are targeted to the 5' untranslate region, translational start site, translational termination region or 3' untranslated region of nucleic acid molecules encoding Fas, Fas ligand (FasL), or Fap-1 (Fas associated protein 1, protein tyrosine phosphatase). The antisense compounds are used to inhibit the expression of Fas, FasL or Fap-1 in cells or tissues. They are used to treat autoimmune or inflammatory diseases such as hepatitis. They can also be used to treat cancer, especially colon, liver or lung
                                                                                                                                                                                                      Human; death domain containing receptor; DR3-VI; cancer; autoimmune disorder; inflammation; cardiovascular disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligonucleotides lung cancer are inhibitors 1 (Fap-1) expression -
                    (HUMA-)
(UNMI)
(YUGG/)
(NIJJ/)
                                                                           22-APR-1999;
28-MAY-1999;
                                                                                                         21-APR-2000;
                                                                                                                               02-NOV-2000
                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                             neurodegenerative disease; angiogenesis.
                                                                                                                                                                                                                                       Human Fas receptor
                                                                                                                                                                                                                                                            20-FEB-2001
                                                                                                                                                                                                                                                                                 AAB36267;
                                                                                                                                                                                                                                                                                                     AAB36267
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence represents human Fas (Apo-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 2; Page 73-74; 116pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB; AAC61798
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 (GENT/)
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                                                                                                                                                                                                                                                                                                                                                        121 rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                           10
                                                                                                                                                                                                                                                                                                                                                                            1 RTQNTKCRCK 10
                                                                                                                                                                                                                                                                                                                                                                                                  10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            or
                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                     YU G.
NI J.
 GENTZ R L.
DILLON P J.
                                           UNIV
                                                     HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lymphoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Marcusson
                                                                                                                                                                                                                                                                                                                                                                                                                                                       335 AA;
                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                          MICHIGAN.
                                                                                                         2000WO-US10741
                                                                                                                                                                                                                                                           (first
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                                                                          99US-0130488.
99US-0136741.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0290640
                                                                                                                                                                                                                                                                                                    Protein;
                                                                                                                                                                                                                                                           entry)
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B
                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for treating hepatitis and colon, liver or of Fas, Fas ligand or Fas associated protein
                                                                                                                                                                                                                                                                                                     335
                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                           Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                       DΒ
                                                                                                                                                                                                                                                                                                                                                                                                                       197;
                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5'-untranslated
                                                                                                                                                                                                                                                                                                                                                                                                                       335;
                                                                                                                                                                                                        infection;
                                                                                                                                                                                                                                                                                                                                                                                                 0;
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RESULT :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 10
A pure or recombinant polypeptide which binds to a polyclonal antibody specific for the mature UL144 is useful for screening molecules which block induction of apoptosis or interfere with antiapoptotic activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention provides the protein and coding sequences for two death domain containing receptors, designated DR3 and DR3-V1. These receptors are involved in apoptosis, and the sequences given can be used in the treatment of cancers, infections, cardiovascular disorders such as arrhythmias, ischaemia, aneurysms, arterial occlusive diseases, embolisms and congenital heart defects, neurodegenerative diseases including Alzheimer's and Parkinson's diseases, autoimmune disease such as multiple sclerosis, arthritis, diabetes, Graves' disease, asthma and psoriasis, and teast and congenitations of the sequence of t
                                                                                              Disclosure; Page 64-65; 76pp;
                                                                                                                                                                      Purified or recombinant polypeptide for modulating apoptosis comprises a sequence which binds to an antibody specific for UL144 or its
                                                                                                                                                                                                                                             WPI; 2000-423383/36
                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                     03-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200034335-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TNF-R1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CD-95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB01335 standard; Protein; 335 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Containing Receptor proteins and a second therapeutic agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treating graft-versus-host disease, cancer, immunodeficiency or an autoimmune disease comprising administering an antibody to Death Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DIXI/) DIXIT V M.
                                                                                                                                                                                                                                                                                          Leong C,
                                                                                                                                                                                                                                                                                                                                         (SCHE ) SCHERING CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 rtqntkcrck 130
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000-687263/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (FAS/APO-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 l Similarity
10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   death receptor; apoptosis; programmed cell death;
; TRAMP; DR-6; TRAIL; modulation; treatment; cances
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               promote angiogenesis and wound healing.
                                                                                                                                                                                                                                                                                          Phillips JH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fig 3; 273pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A,
                                                                                                                                                                                                                                                                                                                                                                                        98US-0205018
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Pred. No.
                                                                                                English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'n,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer; virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FAS;
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RESULT 12
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Best Local
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                                                     intracellular domain, also referred to as tumour necrosis factor receptor 5 (TNFR-5 or TR3)). TRID has cytostatic, immunosuppressive, nootropic, neuroprotective, antiviral, antiinflammatory, anticonvulsant, antiparasitic, cardiant, anti-HIV, antiparkinsonian and vasotropic activities, and can be used in gene therapy. The TRID polynucleotides are useful for detecting complementary polynucleotides. TRID proteins an polynucleotides are useful in the treatment of tumours, resistance to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; tumour necrosis factor receptor 5; TRID; TNFR-5; TR5; nootrop TRAIL receptor without intracellular domain; diagnosis; cytostatic; tumour necrosis factor related apoptosis inducing ligand; vasotropic immunosuppressive; neuroprotective; antiviral; antiinflammatory; anticonvulsant; antiparasitic; cardiant; anti-HIV; antiparkinsonian; gene therapy; restenosis; graft versus host disease; tumour; cancer; apoptotic cell death related disease; autoimmune disorder;
                                                                                                                                                                                                                                                                   The present invention describes the human TRID protein (tumour necrosis factor (TNF) related apoptosis inducing ligand (TRAIL) receptor without
                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acid encoding a TRID polypeptide, also referred to as tumor necrosis factor receptor 5, useful in the diagnosis, treatment or prevention of cancer, autoimmune disorders and viral infection -
parasite, bacteria and viruses, restenosis and graft versus They are also useful for inducing proliferation of T-cells,
                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 2; 285pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardiovascular disorder; viral infection.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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RESULT 1
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Best Local :
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         fusion, which contains a Fas antigen extracellular regione or more amino acid residues in the region from the amino-terminal to (but excluding) the 1st cysteine resignation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; Fas antigen; derivative; apoptosis regulation; gene therapy; treatment; diabetes; arthritis; lupus; hepatitis; influenza; HIV; apoptosis modulation; immunoglobulin GI FC; IgGI FC; fusion.
amino-terminal (preferably at
                                                                                                                     Fas antigen derivative containing modified extracellular region has low antigenicity, promotes apoptosis and is useful in treatm
                                                  The present
                                                                              Disclosure;
                                                                                                        of viral and other diseases
                                                                                                                                                              N-PSDB; AAV07004
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                                                                                                                                                                                                                             (MOCH )
(OSAB-)
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OSAKA BIOSCIENCE
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                                                     sequence is a Fas antigen derivative/IgG1
                                                                            Fig 4; 102pp; Japanese.
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17..376
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
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Pred. No.
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            cysteine residue
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                                                                                                                      is useful in treatment
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RESULT 14
AAW60037
ID AAW600
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Best Local S
Matches 10
This represents the antigenic peptide hFas (nd29) containing the Fc region. The invention provides the use of Fas antagonist as an agent if the treatment and prevention of apoptosis-related diseases. The Fas antagonist can be a partial Fas antigen peptide containing the extracellular part of the protein, but lacking the signal sequence, an anti-Fas antibody, or an anti-Fas ligand antibody, where the antibody preferably a humanised antibody. The Fas antagonist is used in the treatment and prevention of diseases such as myocardial infarction, he
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-SEP-1997;
31-OCT-1996;
27-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The derivative is an effective regulator of apoptosis and can be used (either by administration of the polypeptide, or by the use of the coding DNA in gene therapy) to treat a range of diseases, e.g. diabetes, arthritis, lupus and in particular viral diseases such as hepatitis, influenza and HIV, by modulating apoptosis of
                                                                                                                                                                                                                                                                                      Use of Fas antagonist for treatment and prevention of apoptosis-related diseases - such as heart or kidney graft-versus-host disease or liver disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MOCH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fas ligand; Fas antagonist; apoptosis related disease; liver heart failure; kidney failure; graft-versus-host disease; an myocardial infarction; ischemic restenosis; endotoxic shock.
                                                                                                                                                                                                                                    Examples; Fig
                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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OSAKA BIOSCIENCE INST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Suda T,
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96JP-0290459.
96JP-0351718.
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30..376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note=
                                                                                                                                                                                                                               86pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "hFas antigen signal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "hFas (nd29) protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DВ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     282;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                 failure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         liver disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                              an
                                                                                                                                                             for
                                                       ST
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RTQNTKCRCK

10

Query Match Best Local S Matches 10

Local Similarity nes 10; Conserv

Conservative

0

Score 59; DB Pred. No. 0; Mismatches

DВ

324;

Length

600;

0;

Indels

0,

Gaps

0

100.0%;

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RESULT 1
AAR78610
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В
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  endotoxic
The agent
Sequence
                                          AAR78610 is the protein prod. of the expression vector pME18S/human antigen.extracellular region-AIC2A. The expression vector was used f the prodn. of recombinant soluble membrane proteins. The proteins can
                                                                                         Claim 10;
                                                                                                            Preparation of soluble membrane proteins - for their use in antibody production for the treatment and prevention of related diseases
                                                                                                                                                                                                                                                09-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR78610;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAR78610 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        system
                                                                                                                                              N-PSDB; AAQ95301.
                                                                                                                                                                                                     26-OCT-1993;
                                                                                                                                                                                                                          26-OCT-1993;
                                                                                                                                                                                                                                                                      JP07115988-A
                                                                                                                                                                                                                                                                                                    Peptide
                                                                                                                                                                                                                                                                                                                                       кеу
                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                            extracellular;
                                                                                                                                                                                                                                                                                                                                                                                                       Expression vector;
                                                                                                                                                                                                                                                                                                                                                                                                                           Expression vector pME18S/hFas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-FEB-1996
                                 be used in
                                                                                                                                                                              (NISB ) JAPAN TOBACCO
                                                                                                                                                                                                                                                                                                                           Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 92 rtqntkcrck 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 RTQNTKCRCK 10
                                                                                                                                                          1995-202847/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ischemic heart disease, acute kidney failure, graft-versus-host ischemic restenosis of the heart, liver or Kidney, and ischemic as an organ preservative in transplantation. c shock, and also as an organ preservative in transplantation. t is of low toxicity but effectively inhibits the Fas/Fas ligand
                                                                                                                                                                                                                                                                                                                                                                                lular; region; AIC2A; s
production; diseases;
                                                                                        Pages 28-30;
                                antibody
600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
 A,
                                                                                                                                                                                                      93JP-0267644
                                                                                                                                                                                                                          93JP-0267644
                                                                                                                                                                                                                                                                                                     /label=
17..600
                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                           /label= mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                       pME18S/hFas.EXT-AIC2A; human Fas antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein;
                               prodn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                     51pp;
                                                                                                                                                                                                                                                                                                                sig_peptide
                                         ion-AIC2A. The expression vector was used fo soluble membrane proteins. The proteins can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                        Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                soluble membrane protein; treatment; prevention.
                                                                                                                                                                                                                                                                                                                                                                                                                            EXT-AIC2A
                                 the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                 treatment
                                                                                                                                                                                                                                                                                                                                                                                                                            protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  305;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                            prod
                                prevention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                 of related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 1
AAR92526
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                      AAW64484
                                 RESULT 17
                                                                                                                   Best Local
Matches
                                                                                                                             Query Match
Best Local
         AAW64484 standard; Protein; 669
                                                                                                                                                                                               AAR92526 and AAR92527 represent soluble Fas antigens. These soluble Fas antigen is included in the immunoassay kit of the invention. The kit is for the assay of soluble Fas antigen and contains an immobilised anti-soluble Fas monoclonal antibody, as well as one of these standard soluble Fas antigens. The assay is simple and has high accuracy, high sensitivity, and is capable of assaying a number of different specimens at the same time. The immunoassay is used on biological samples (such as serum) and is useful for diagnosis of autoimmune diseases such as rheumatoid arthritis or systemic lupus erythematosus (SLE).
                                                                                                                                                                                                                                                                                                                  Claim 13; Page 73-77; 124pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-FEB-1995;
06-JUL-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fas; antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR92526;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR92526 standard; Protein; 600 AA.
                                                                                                                                                                                                                                                                                                                                                      Immunoassay method for soluble Fas antigen in body fluids - for diagnosis of auto:immune diseases such as rheumatoid arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9601277-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fas antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-SEP-1996
                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; AAT16300
                                                                                                                                                                                                                                                                                                                                                                                                                           Hachiya T, Noguchi J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rheumatoid
                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 rtqntkcrck 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16
                                                                               RTQNTKCRCK 10
                                                                                                                                                                                                                                                                                                                                                                                                      1996-087635/09.
                                                                                                                  10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDICAL & BIOLOGICAL JAPAN TOBACCO INC.
                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                            lupus erythematosus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        arthritis;
                                                                                                                                                                         600 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #1
                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunoassay; monoclonal antibody; autoimmune disease;
rhritis; serum; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95JP-0025637.
94JP-0154706.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95WO-JP00349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "signal peptide"
17..600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "mature Fas antigen #1"
                                                                                                                                                                                                                                                                                                                                                                                                                            Yonehara
                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             LAB
                                                                                                                             Score 59; D
Pred. No. 0;
                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ႘
                                                                                                                                                                                                                                                                                                                                                                                                                                                             LTD
                                                                                                                                        DB 347;
                                                                                                                  0;
                                                                                                                                       Length 600;
                                                                                                                  Indels
                                                                                                                                                                                                                                                                                 These soluble Fas
                                                                                                                  0
                                                                                                                  Gaps
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Search completed: Job time: 5 sec

August 29, 2002, 08:00:36

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Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                           graft vs. host disease, acute or chronic graft rejection. Antagonists of DR4 are used to inhibit such apoptosis, e.g. in cases of acquired immune deficiency syndrome, neurodegenerative disease, myelodysplastic syndrome, ischaemic injury, toxin-induced liver damage, septic shock, cachexia and anorexia, also a wide range of inflammatory conditions. DR4 of fragments of the protein are used diagnostically, e.g. to detect mutant forms of DR4 (possibly associated with disease), for isolating the DR4 gene or
                                                                                                                                                                                                                                                                                                                                                                                                                                         is used in a method resulting in the isolation of a human death domain containing receptor 4, DR4. DR4 agonists are used to increase apoptosis induced by tumour necrosis factor (TNF) family ligands, e.g. in cases of cancer, autoimmune disease, viral or other infections, inflammation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          useful for therapeutic modulation of apoptosis, in e.g. cancer and autoimmune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dixit VM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-FEB-1997;
28-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Death domain containing receptor 4; DR4; apoptosis; cancer; inflammation; agonist; tumour necrosis factor; TNF; ligand; autoimmune disease;
                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence represents a human tumour necrosis factor receptor-1 which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 2; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-427952/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (HUMA-) HUMAN GENOME SCI INC (UNMI ) UNIV MICHIGAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JUL-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9832856-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              infection; graft rejection; antagonist; inhibitor; diagnostic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human TNFR1 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW64484;
121
                                           1 RTQNTKCRCK 10
rtqntkcrck 130
                                                                                       Similarity
10; Conserv
                                                                                                                                                                                                                                                       sequences and for chromosomal mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gentz RL,
                                                                                                                                                                                                            669
                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                            AΑ;
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97US-0035722.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98WO-US01464
                                                                                                             100.0%;
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                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pan
                                                                                                               Score 59;
Pred. No.
                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rosen
                                                                                                                                        В
                                                                                                                                     371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CA,
                                                                                         0;
                                                                                                                                   Length
                                                                                         Indels
                                                                                                                                        669;
                                                                                       0;
                                                                                         Gaps
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# HILL I MUE BLANK (USPTO)